Federal Communications Commission
Washington, D.C. 20554

April 24, 2013

DA 13-859

Mr. Zuhair Muakkit
Antenna Technology Communications, Inc.
450 North McKemy Avenue
Chandler, AZ 85226-2606

Call Sign: E130009
File No.: SES-LIC-20130114-00046

Dear Mr. Muakkit:

On January 14, 2013, Antenna Technology Communications, Inc. (Antenna Technology) filed the above-captioned application to operate a new transmit and receive fixed earth station in Chandler, AZ, in 5850-6425 MHz frequency band. For the reasons discussed below, we dismiss the application as defective, without prejudice to refiling.[1]

Section 25.112 of the Commission's rules, 47 C.F.R. § 25.112, requires the Commission to return, as unacceptable for filing, any earth station application that is not substantially complete, that contains internal inconsistencies, or that does not substantially comply with the Commission's rules. The deficiencies and inconsistencies in Antenna Technology's application are as follows:

- Antenna Technology indicates in item 26 of Form 312 that this application is for a transmit and receive earth station, but fails to provide the technical data for the receive frequencies in items E43 to E49 of Schedule B.
- Antenna Technology incorrectly states in item E18 of Schedule B that a frequency coordination report is not required and does not submit the Frequency Coordination and Interference Analysis Report for emission designator 5G00G1F for the 5850-6425 MHz frequency band, as required by Section 25.130(b) of the Commission's rules.[2]
- Antenna Technology does not identify a satellite point of communication in item 21 of Schedule B.
- Antenna Technology does not provide the necessary frequency coordination data in items E28 and E51-E60 in the Frequency Coordination Section of Schedule B.

---

[1] If Antenna Technology refiles an application in which the deficiency identified in this letter has been corrected but otherwise identical to the one dismissed, it need not pay an application fee. *See* 47 C.F.R.§ 1.1111(d).

[2] 47 C.F.R. § 25.130(b). Section 25.130(b) states, "A frequency coordination analysis in accordance with § 25.203 shall be provided for earth stations transmitting in the frequency bands shared with equal rights between terrestrial and space services… ." Section 2.106 of the Commission's rules, 47 C.F.R. § 2.106, allocates the 5925-6425 MHz frequency band to both Fixed and Fixed-Satellite Services on a primary basis.

- Antenna Technology indicates in item E38, that the total input power at antenna flange will be 60 Watts, but submits a Radiation Hazard study based on a transmit power of 40 Watts.
- Antenna Technology indicates in item E49 that the maximum EIRP density per carrier will be -16.50 dBW/4 kHz for emission carrier 5G00G1F. That maximum is inconsistent with the values that Antenna Technology provides in items E48 (Maximum EIRP per Carrier (dBW)), E47 (Emission Designator), E38 (Total Input Power at antenna flange (Watts)), and E42 (Transmit Antenna Gain (dBi)).[3]

Although not grounds for dismissal, we request that, as part of any refiling, Antenna Technology demonstrate compliance with Section 25.209(a) and (b) of the Commission's rules,[4] even though Antenna Technology indicates in item E15 that the 3.7-meter Prodelin GD Satcom antenna complies with the antenna gain patterns that are specified in Section 25.209(a) and (b).[5] If Antenna Technology cannot demonstrate compliance with Section 25.209(a) and (b), then Antenna Technology must either submit the certifications listed in Section 25.220(d)(1)(i-iv) of the Commission's rules,[6] or Antenna Technology may cite the particular application file number and call sign of a license in which that type of non-routine antenna has been previously approved, pursuant to the procedures set forth in the *Part 25 Earth Station Fifth Report and Order*.[7] Please note that the Commission maintains a list of approved non-routine antennas at http://transition.fcc.gov/ib/sd/nresa/#.

Accordingly, pursuant to Section 25.112(a) (1) of the Commission's rules, 47 C.F.R. § 25.112(a)(1), and Section 0.261 of the Commission's rules on delegations of authority, 47 C.F.R. § 0.261, we dismiss Antenna Technology's application without prejudice to refiling.

Sincerely,

Paul E. Blais
Chief, Systems Analysis Branch
Satellite Division
International Bureau

---

[3] Antenna Technology's request for emission designator 5G00G1F means that it is asking to transmit a single, phase modulated, 5-gigahertz wide carrier, video signal. Therefore, for this emission designator, the Maximum EIRP for a single carrier, E48, would be equal to the value stated in E40. Furthermore, the value of Maximum EIRP Density per Carrier (dBW/4kHz) that Antenna Technology states in E49 is incorrect and inconsistent with its responses to E40 and E48.

[4] 47 C.F.R. § 25.209(a) and (b).

[5] *See* 47 C.F.R. § 25.132(a)(1)

[6] 47 C.F.R. § 25.220(d)(1)(i-iv)

[7] *See 2000 Biennial Regulatory Review - Streamlining and Other Revisions of Part 25 of the Commission's Rules Governing the Licensing of, and Spectrum Usage by, Satellite Network Earth Stations and Space Stations/Amendment of Part 25 of the Commission's Rules,* Fifth Report and Order in IB Docket No. 00-248, and Third Report and Order in CC Docket No. 86-496, 20 FCC Rcd 5666 (2005).